

Revision 1 Date Issued: 12/02/2015

1. Identification of the substance/preparation and company

Product Name: **Flowchem SP3**

Application:

Liquid sealer, floor hardner and dust proofer.

Manufacturer:

Flowcrete SA (Pty) Ltd, 176 Voortrekker Street, Jacobs 4052

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2. Composition/information on constituents

Chemical Name		CAS No.	% by weight	Symbols & Risk Phrases
Sodium silicate	2Na ₂ O.SiO ₂ var.	1344-09-8		R 41, R38
Silicates				
Water glass				

Hazardous Components : 40% - 55% sodium silicate
Non-toxic

3. Hazards Identification

Low to moderate hazard.

Classified as irritant under EEC "Dangerous Substance Directive" 67/548/EEC as amended by 92/32EEC

Contact could cause serious damage to eyes, irritant to skin.

4. First Aid measures

First Aid Skin : Remove and isolate contaminated clothing, including shoes.
Flush skin with running water for 20 minutes.

First Aid Eyes : Flush eyes with water for 20 minutes.
Hold eyelids open while washing.
Seek medical attention without delay.

First Aid Ingested : Do not induce vomiting.
Remove material from mouth, drink 1-2 glasses of milk.
Seek medical attention.

First Aid Inhalation : Move victim to fresh air.
Get medical attention if irritation persists.

5. Fire-fighting measures

Product itself is an aqueous solution, and will not support combustion.

6. Accidental release measures

Contain (avoid spillage from entering drains or water courses)

- Precautions** : Restrict access to area.
Notify occupation and environmental authorities.
- Spill or Leak** : Do not touch or walk through spilled material.
Contain spillage and absorb in sand or earth.
With shovel place material into clean, dry container and cover; move containers from spill area.
- Small Spills – Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
 - Large Spills – Dike far ahead of liquid spill for later disposal.

7. Handling and storage

- Storage** : Store in steel tanks or drums.
Do not store at temperatures above 50 degr. C for prolonged periods.
Do not allow to freeze.

8. Exposure controls/personal protection

- Occupational Exposure Limits** : (UK EH40/93) not listed.
- When using Sodium Silicate it is recommended that exposure to alkalinity is, calculated as NaOH.
Exposure limit NaOH = 2mg/m³ (10 min TW)
- Controls** : The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.
The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.
Exhaust directly to the outside.
Supply sufficient replacement air to make up for air removed.
Give a safety shower/eye wash fountain readily available in the immediate work area.
- Personal Protection** : If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles and face shield, boots, imperious gloves, coveralls, and respiratory protection (if sprayed).

9. Physical and chemical properties

Varies in form from colourless to yellowish grey liquid.

Odour	: No odour	pH	: >12
Density	: 1.4 – 1.6 g/cm ³	Boiling Point	: >100 °C
Melting Point	: 0 °C	Water solubility	:
Viscosity	: = 200 to 100000 cps @ 20°C	Non combustible	:

10. Stability and reactivity

- Conditions to Avoid** : Non combustible
Food or dairy residues under certain conditions may react with alkaline materials evolving carbon monoxide. Ensure adequate ventilation before entering confined spaces.
- Incompatible Materials** : May react with Aluminium Zinc, Tin and their alloys evolving Hydrogen gas.
May react violently with acids.
- Other** : N/A

11. Toxicological information

- Alkalinity** : Contact may cause burns to skin and eyes.
- Ingestion** : LD 50 oral rat values are 1300 – 2200 mg/kg.
- If solution is sprayed** : Irritation of airways is the likely effect.

12. Ecological information

No ecological problems are expected when the product is handled and used with due care.

13. Disposal considerations

- Disposal Method Product** : There are no uniform EC regulations for the disposal of chemicals or residues.
We recommend that you contact the local authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.
- Disposal Method Packaging** : Disposal in accordance with local legal provisions.

14. Transport information

- Hazchem Code** : 2xe
EAC : 11
ERG No. : 171
IMDB-Shipping Name : Not controlled Substance
IMDG Code : 000000
Marine Pollutant : Yes
Class : Class 9
Miscellaneous Group : III
Subsidiary Risks : None

15. Regulatory information

EEC Hazard Classification	:	9
Risk Phrases	:	R 41, R 38
Safety Phrases	:	S 2, S 26, S 27,, S 37/39
National Legislation	:	Not listed

16. Other Information

The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to the appropriate safety precautions.
It does not represent a guarantee of the properness of the product.